

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
27 October 2005 (27.10.2005)

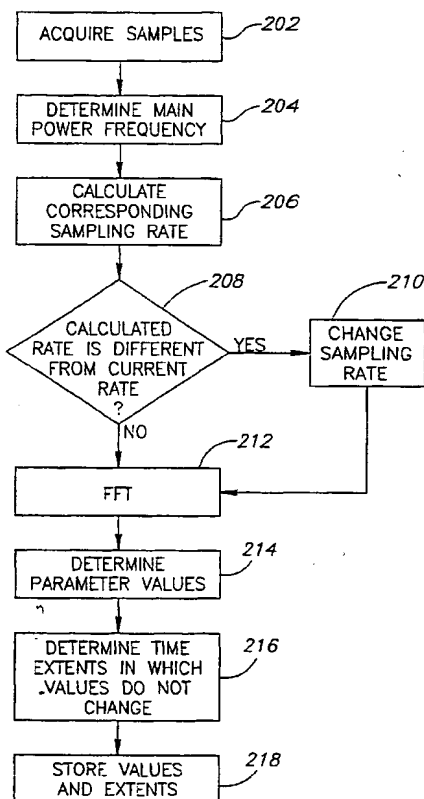
PCT

(10) International Publication Number
WO 2005/101032 A1

- (51) International Patent Classification⁷: **G01R 11/32**, 21/00
- (21) International Application Number: **PCT/IL2004/000332**
- (22) International Filing Date: 18 April 2004 (18.04.2004)
- (25) Filing Language: English
- (26) Publication Language: English
- (71) Applicant (for all designated States except US): **ELSPEC LTD.** [IL/IL]; 4 Hashoham Street, Zone 23, Caesaria Industrial Park, 38900 Caesaria (IL).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **NISENBLAT, Pol** [IL/IL]; 39 Soroka Street, 34759 Haifa (IL). **BROSHI, Amir, Mordehay** [IL/IL]; 11 Kochvan Street, 45224 Hod Hasharon (IL). **EFRATI, Ofir** [IL/IL]; 39 Pardes Meshutaf Street, 43355 Raanana (IL).
- (74) Agents: **FENSTER, Paul et al.**; Fenster & Company Intellectual Property 2002 LTD., P. O. Box 10256, 49002 Petach Tikva (IL).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR,

[Continued on next page]

(54) Title: **POWER QUALITY MONITORING**



(57) Abstract: A method of compressing values of a waveform of a monitored electrical power signal. The method includes of acquiring data representative of periods of the waveform (202), decomposing the waveform of the power signal into a plurality of components, over a plurality of periods of the waveform (sequence steps 204, 206, 208, 210, 212, 214) compressing the values of at least some of the components over a plurality of periods (216), individually. And storing these values and extents (218).

WO 2005/101032 A1



GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK,
TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW,
ML, MR, NE, SN, TD, TG).

Published:

— with international search report

Declaration under Rule 4.17:

— of inventorship (Rule 4.17(iv)) for US only

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

BEST AVAILABLE COPY